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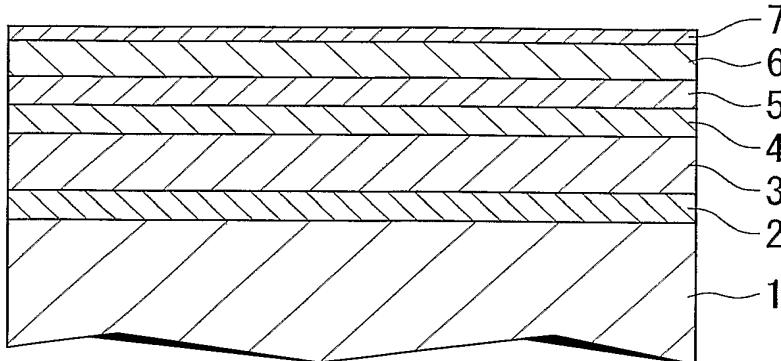
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(54) Title: PERPENDICULAR MAGNETIC RECORDING MEDIUM USING SOFT MAGNETIC LAYER WHICH SUPPRESSES NOISE GENERATION, AND PERPENDICULAR MAGNETIC RECORDING APPARATUS THEREWITH



WO 2005/093719 A1

(57) Abstract: The magnetic recording medium of the present invention has a substrate, a perpendicular magnetic recording layer, and a soft magnetic layer formed therebetween, having a thickness of less than 100 nm, the soft magnetic layer having a magnetic anisotropy in a surface direction, and product Bs Hc, which is a production of a saturation magnetic flux density Bs and a coercive force Hc, of not less than 79 T Aim (10 kG Oe). By making the thickness of the soft magnetic layer into the above-mentioned range, the magnetic anisotropy in surface direction can be stabilized. magnetostatic energy can be increased sufficiently by making the Bs • Hc into the above-mentioned range. Therefore, generating of the magnetic wall in the soft magnetic layer can be suppressed, the noise generating from the soft magnetic layer can be suppressed, and a high-density recording is enabled.



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